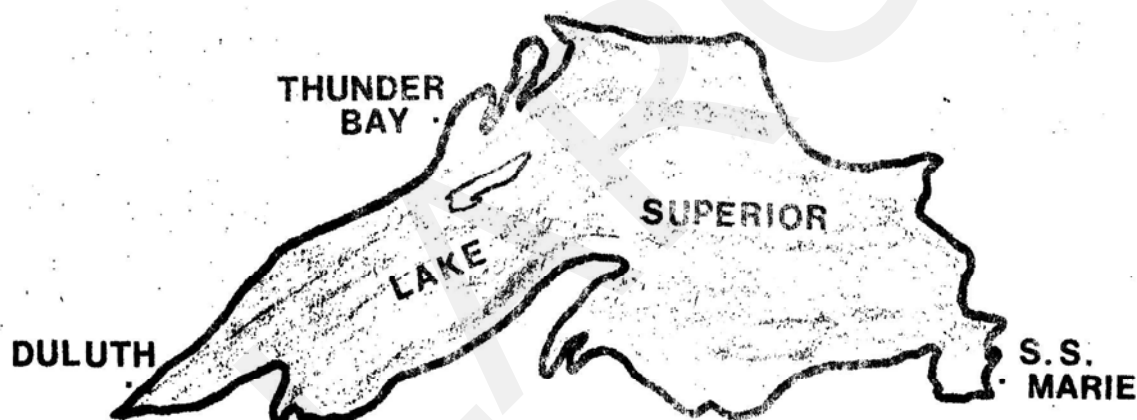


APR - - 1986

HI-Q

LAKEHEAD AMATEUR RADIO CLUB BULLETIN



REPEATERS

TBR 146.82

YQT 147.06

CLUB STATION

VE3FW

FOUNDED 1934

INCORPORATED 1979

....NEWS UPDATE....THUNDER BAY HAM POLICE....

In a recent Bawdy House raid, the Thunder Bay
Ham Police recovered what seems to be the miss-
ing T.B.R. Blueprints. It has been suggested
that the Blueprints for T.B.R. be printed in HI-Q
this month, so in keeping with the wishes of ?????
here is the Blueprints....dateline T.B.H.P.

* Please note secret coded message below.

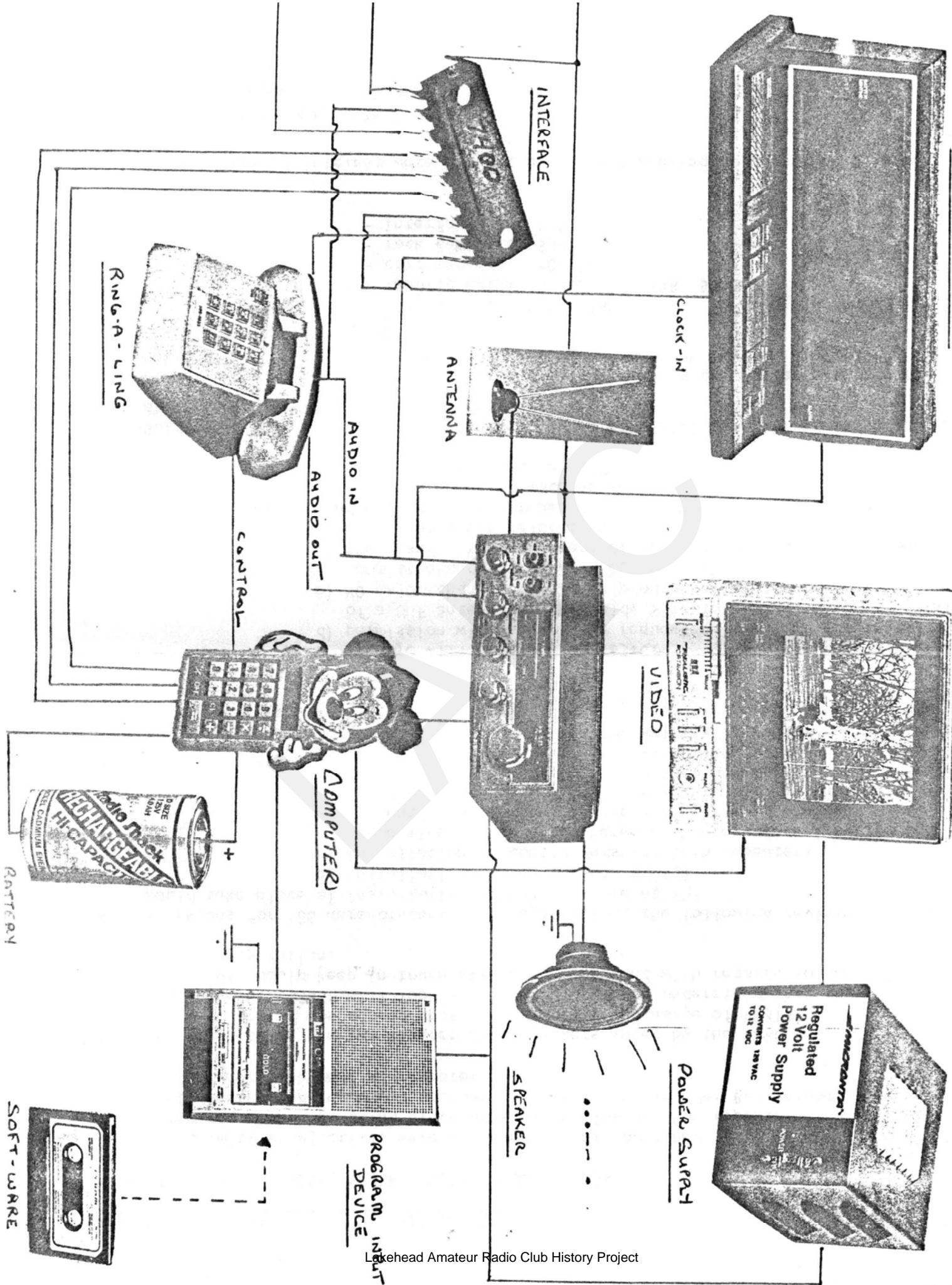
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LET THE CLOCK

BLUEPRINTS FOR VESTER 22/82



MINUTES OF REPEATER COMMITTEE MEETING 24FEB86

PRESENT: VE3BBS, VE3BCD, VE3CK, VE3CX, VE3EFC, VE3XJ

1. The committee objectives were reviewed and are outlined as:
 - to recommend operating procedures on the Thunder Bay Repeaters
 - to review and recommend changes/updates to the Thunder Bay Repeaters
 - to enforce payment of repeater dues.
2. Liaison between the two Thunder Bay Repeaters owned by the LARC were reviewed and it was agreed that Tom, VE3CX is in charge of VE3TBR and that Laurie, VE3BCD will look after VE3YQT. It was understood that these two people would keep in touch with each other and with regards to general repeater operation.
3. Revisions for '86 were discussed and agreed that the following revisions would take place
 - a) installation of heliax cable at YQT
 - b) installation of new antenna at YQT
 - c) installation of controllers for both repeaters
 - some minor differences between the repeaters i.e. TBR & YQT both repeaters will have
 - 2 minute ID timers
 - ID at a low volume
 - 5 minute Auto Patch (Resetable)
 - 1000-1200 HZ tones (Sine Wave)
 - 1 sec delay for courtesy tone
 - better sounding CW IDs, etc
 - 20 WPM CW
 - Pass thru tones for Auto Patch
 - there will NO clock on VE3YQT
 - d) permission will have to be requested from CKPR for installation of a UHF antenna at the Baldy Site for the link
 - e) NO major changes to either programme unless so approved by the committee and if required by the membership
 - f) the standby YQT equipment at Baldy to be brought down and worked on for possible relocation

Revisions for '86 and beyond - a new repeater site - possibly RED ROCK or UPSALA

 - Voting machine for TBR
 - Linking for YQT

4. Guidelines for the repeater as presented in HI-Q will be reviewed and acted upon at the next repeater committee meeting.
5. It was agreed that Repeater Committee meetings be held the Monday prior to the Monthly General Meeting at the EMO building in the Club Station at 7:30 pm. (Next meeting will be Monday April 7th)
6. Budget Items for '86
 - duplexer new \$1300-1400
 - rebuild existing duplexer TBR \$400-500
 - card extenders YQT \$25
 - rack cabinets \$300
 - interfaces etc \$200

7. No new items of interest were brought up and the meeting adjourned at 9:15 PM

L.M. (Skip) Wright, VE3BBS
Chairman, Repeater Committee

APRIL - 1986 ISSUE

THE NEXT MEETING OF THE L.A.R.C. WILL BE HELD THURSDAY APRIL 10, 1986 at the E.M.O. BUILDING, CORNER OF WATERLOO/VICTORIA AVE. COFFEE/POP AND DONUTS WILL BE SERVED.

* * * * *

THE PREZ SEZ

Congrats go to Coral Spence, who is now signing VE3PHR, and to John Kuzma VE3PHL. Both were successful during the last DOC exams, and were just in need of the CW portion of the test. Nice Going!

At last months meeting, the club decided to allow the executive to decide the fate of the clubs HW-100. For the most part, we felt it would best be used to promote Amateur Radio, and to get a few newly licenced hams on the air, so they could see what this wonderful hobby of ours has to offer.

Prior to the meeting, we had decided to donate the rig to Frank, VE3OTZ for use at Hillcrest High School and at the meeting we sought the blessing of the membership to do so. However, the question of liability arose, along with what would happen should Frank leave town.

The final outcome is that: The rig was sold to Frank for \$1.00. That way, we are not liable for personal injury (should it happen - heaven forbid). Under a gentleman's agreement Frank will sell the rig back to the club for \$1.00 should he leave town, or for any other reason decide he no longer wishes to keep the rig. Hopefully all will agree that this seems like a very good arrangement on both sides.

At the April meeting, Les Harris, VE3AYZ will be giving a slide presentation. The subject is with regards to the airport and DOT. Should be a good one, so don't miss it!

At the April meeting, a constitution change will also be tabled. As Ian VE3LMN has pointed out, the job of Secretary/Treasurer is becoming a rather large job, and would like to see the job handled by two people, one as secretary and another as Treasurer. A more detailed writeup appears here in Hi-Q. I realize most people don't have a current copy of our constitution. Once this matter re: the secretary/treasurer is addressed, new copies will be printed and distributed.

As well, this issue has a number of items regarding our repeaters. Some people have mentioned that this is a rather dominant issue with me, and for this, I must apologize. However we as a club are spending a lot of time and money on these items, and I think that the club should be aware of what is happening and what is planned. Once the major upgrades that are currently taking place are completed, the club can shift its focus onto other aspects of Amateur Radio. I feel that as long as thousands of dollars are being spent on these items, everyone has a right to know what is happening, and what is planned.

The club members input is important and appreciated on these and other matters. In order to allow everyone to know whats planned, I have another article or two about the repeaters.

THE PREZ SEZ - (cont'd)

One final note: It has been mentioned that the meeting time of 8:00 P.M. is perhaps a bit late. How about starting the meeting at either 7:00 P.M. or 7:30 P.M.? Give it some thought.

73 Tom VE3CX

* * * * *

CONSTITUTION CHANGE

At the March meeting, mention of a constitution change was made. In following with the constitution, these changes are being printed in HI-Q and will be voted on at the April Meeting. These changes deal with making the position of Secretary/Treasurer two jobs, instead of one as it is now. Ian, VE3LMN will continue as Secretary/Treasurer until the elections in June.

ARTICLE 4, ITEM B currently reads as follows "There shall be an elected executive consisting of: President, Vice-President, Secretary-Treasurer, Four (4) Directors, and the Editor of the Club Bulletin".

We would like to amend it to read as follows "There shall be an elected executive consisting of: President, Vice-President, Secretary, Treasurer, Four (4) Directors, and the Editor of the Club Bulletin".

ARTICLE 4, ITEMS D AND E read as follows:

D. It shall be the duty of the Secretary-Treasurer to:

- 1) Record and present the minutes of meetings.
- 2) Record and present all financial transactions of the Corp.
- 3) Prepare and sign an audited Financial Statement with the assistance of two club members. The two assistants will be appointed from the membership at the May general meeting. The audited financial statement will be presented at the June general meeting, prior to the election of officers.
- 4) Be chairman of the finance committee.
- 5) perform such other duties as designated by the Executive.

E. It shall be the duty of the President and the Secretary-Treasurer to authorize all expenditures on behalf of the Corporation. Expenditures exceeding the limits as stated in the bylaws must be authorized at a general meeting.

We would like to change these items to the following:

D. It shall be the duty of the Secretary to:

- 1) Record and present the minutes of meetings.
- 2) Perform such other duties as designated by the Executive.

E. It shall be the duty of the Treasurer to:

- 1) Record and present all financial transactions of the Corp.
- 2) Prepare, and sign an audited financial statement with the assistance of two club members. The two assistants will be appointed from the membership at the May general meeting. The audited financial statement will be presented at the June general meeting, prior to the election of officers.

E. 3) Be chairman of the Finance committee.

F. It shall be the duty of the President and the Treasurer to authorize all expenditures on behalf of the Corporation. Expenditures exceeding the limits as stated in the bylaws must be authorized at a general meeting.

ARTICLE 2: DUES currently reads as follows: "Each member shall be required to pay the fees as presented under bylaw No. 1. Dues shall be collected annually by the Secretary/Treasurer. If dues have not been paid by the October meeting, said individuals shall cease to be club members."

We would like to change the reference to "Secretary/Treasurer" to "Treasurer".

And those are the proposed changes. If you wish to comment on these, please attend the April meeting.

Tom VE3CX

* * * * *

HOW TO USE THE AUTOPATCH

In recent submissions, I have made mention that the new controller for VE3YQT will operate the same as VE3TER. This has caused some concern, as some new (and some not so new) members, don't know how to use the Autopatch on VE3TER. Please read this article and give it a try! Autopatch is just a touchtone away!

To start off with, VE3TER is run with a TRS-80 computer, and it controls VE3TER in its entirety. In other words, no matter what you want to do, the computer obeys every command. Naturally, certain safeguards are built in to prevent it from getting away from you. It is not possible to "break" it, so don't worry--you can feel free to explore.

Should something go wrong, the repeater always returns to the repeater mode. If you attempt to enter something the computer does not understand or you make a mistake, you will end up back in the repeater mode.

VE3TER is unique in many ways. For starters, when you key your microphone, then release it, you will hear a BRRRT. This is the courtesy beep. That tells you that the three minute time-out timer is reset. Once you unkey, there is a short delay before you hear the courtesy beep. This gives other stations a chance to break in. If you don't wait for the courtesy beep, you run the risk of timing out the repeater.

What happens when you time the machine out? As mentioned before, the time-out timer is set for three minutes. If you talk longer than this, the repeater will send "to" (timed out) in CW, then turn off the transmitter. When you finally unkey, the transmitter comes back on, and you will hear the hozer tune. This means you are a prime candidate for the piece of hardware for your shack!

(cont'd)

AUTOPATCH (cont'd)

The repeater is equipped with a variety of "tail messages". These are simple reminders for upcoming functions. For example "MEET" means a meeting is forthcoming, "RACE" for the Legion Ten Mile Road Race, Sibley Ski Tour, Etc. These are heard just prior to the transmitter turning off.

The repeater is also equipped with a "SPECIAL" courtesy beep and tail message "EME QSY" for ARES purposes. This will be activated during an emergency. All ARES members are requested to check in with VE3FW on VE3YQT.

On a randomized basis, you will hear Petey, the talking clock announce the time on the tail. He lives in VE3TBR and likes to "sneak in" and give you the time. He is followed by either "est" or "dst" in CW (for eastern standard time, or daylight savings time).

So much for using the repeater. Very, very simple. The machine is set to ID at 2 minute intervals, and waits for you to drop your carrier before IDing. If you are noisy, and dropping out, the machine may, on occasion, ID over you. A fix is in the works to lower the ID level if a carrier is present during ID times.

One last thing before we move on. If the repeater is idle for one-half hour, it will turn on, announce the time, then send "DE VE3TBR Thunder Bay Repeater" in CW. While this is being done, you must wait for it to finish before it will accept any commands.

Now for the good stuff. As you will notice on the enclosed function sheet, the machine has a large variety of features. The first one is autopatch. To use it, key in asterisk one, (*1) on your touch tone pad, then unkey. You will hear "ID?" in CW. Give your call. If you don't unkey, just enter your 7 digit phone number. If you did unkey, and heard the "R", enter your phone number.

When asked to ID, you must give your call. If you kerchunk your mic, give a touchtone, or do nothing, the autopatch will abort. It will send "END" in CW, then return to the repeater mode. If you give your call and drop out while doing so, the computer may mis-interpret it as a kerchunk and drop the call. If so, find a spot where you're in full quieting into the repeater and try again.

Assuming all went OK, enter your phone number to be dialed. Please note, if the first digit is a zero (0) or a one (1), the call is terminated. As well, the machine will only dial seven digits. If 8 digits are received, none are dialed. If 8 are received, only the first 7 are dialed. Also, all the digits must be dialed within four seconds between digits. If you forgot the number you are dialing, and the repeater does not get its next digit within four seconds on the previous one, the call is dropped. A crosshatch (#) at this time will also drop the patch.

Assuming all went OK and you entered your phone number (7 digits) you can now unkey. You will now hear dial tone for two seconds, followed by high speed touch tone dialing. This is the computer dialing your phone number. Please note: When you hear the dial

AUTOPATCH (cont'd)

tone, if any digit is sent by you to the repeater (IE 0, 1, #) the call will be dropped. Once dialing commences, you must wait for it to complete before attempting to terminate it.

Once dialing is completed, a five minute timeout timer is activated. When timeout is approaching, a series of warning beeps will be heard. Use the Asterisk (*) to reset the timer. The timer can be reset at any time during the autopatch. The cross-hatch (#) is used to terminate the call. When the call is terminated, you will hear "END" in CW.

When the Autopatch is active, the person on the Radio is in command of the call. When a carrier is present (your mic keyed), audio from the phone line is not sent to the transmitter. That way, if the person on the phone say a "NO NO", just key your mic to cut them off. Simple but effective, and you are in control.

So much for the "main" autopatch. All other autopatch functions operate in a similar manner, with variations on how the phone number is entered and dialed. Once in the autopatch mode, they operate the same as above. One other thing, long distance is not permitted. The computer looks at everything you are doing and will not allow you to call long distance. If you must make a long distance call, either use a payphone or phone from home. You can't use the autopatch!

As you will notice from the function sheet * asterisk (*4) is also an autopatch code. This differs from *1 in that your touch tones enter the phone line directly and are not regenerated by the repeater. It operates the same as *1, less the computer dialing.

There are three speed dial functions. The first is asterisk (*5). When you key the *5, the repeater will respond with "ID?" in CW. Give your callsign, then enter the two digit number corresponding to the number you wish to call. For example, 00 is for the Thunder Bay Police Department. If you enter in 00, the repeater will respond with an appropriate message in CW. In this example "POLICE" will be sent. This is followed by dial tone for two seconds, then the touch tone dialer will be heard. Your call is ready to go, and follows the same rules as those for *1.

The next speed dial function is asterisk (*6). This is a work number speed dial. If you look on the function sheet, you will notice some callsigns are followed by an asterisk (*). This indicates that their work phone number is stored in the repeater. It operates the same as the *5 speed dial, except a different list is used. In this case, work phone numbers.

The last speed dial function is for home phone numbers. It operates the same as *5, except hams home phone numbers are called. Use the directory to locate the person you wish to call. You key in *7. The repeater responds with "ID?". Give your call. Enter the 2 digit speed dial number to be called, and away you go.

The asterisk (*9) is a redial feature. The last number dialed on the repeater is stored in temporary memory, and can be called again. Just key in *9. Repeater responds with "ID?". Give your call. The computer will bring up dial tone and dial your number

(cont'd)

AUTOPATCH (cont'd)

again. The redial works for both autopatch functions, and all speed dial functions.

There is also a dial-in feature on the machine. If someone calls the repeater phone number (345-5552), the computer lets you know the phone is ringing. If the repeater is idle (no one on the machine), the transmitter is turned on, then a series of triple beeps are sent. If a QSO is in progress, the repeater will wait for a pause in the action before sending the triple beep. To answer the call, key in asterisk (*3), then announce "Lakehead Amateur Radio Club (your name) speaking".

There are several emergency type features available. The local police can be called up by keying in asterisk (*00). The repeater responds with "ID?". Give your call. The repeater will then send "POLICE" in CW, then dials them up on the autopatch. The same will work for the OPP. Just use *01, and follow the same procedure. The machine will send "OPP" instead of Police, and dials up the OPP for you!

Should an emergency arise, and you are not able to contact anyone on the repeater, fear not for help is close at hand. If you hold down any digit (not asterisk or crosshatch) for ten seconds, a special feature is activated. You will hear a special tone, followed by "HELP" in CW. Arnold, VE3JAA is then called up on the Autopatch. Arnold is home most of the time, and will be happy to assist in any way possible.

As mentioned previously, the repeater has a built in talking clock. Should you wish to hear the correct time, just key the asterisk (*8). You will hear the time, then "EST" or "DST" in CW.

The machine is also equipped with facilities to check your touch tone pad for proper operation. Just key in asterisk (*) 2. The repeater will send "test pad" in CW. Now key in a one, then release your mic. If it was decoded OK by the repeater, it will send an "R" in CW. If the digit was not properly decoded, nothing will be sent. The decoder can't tell you what the problem is (IE only one tone) but I have heard some pretty funny sounding tones, and the repeater decoded them OK. The decoder will almost accept anything!

Well, that's it! Hopefully, you are still wide awake, and memorized every word. Just kidding. I have attempted to explain how to use the repeater and why some things work as they do. If you have any problems, let me know, and I will try to help you out. In most cases, just ask for help on the air, and most likely someone will give a hand.

VE3TBR has a lot of features, and it may be (it is) next to impossible to remember everything. Carry around the function sheet to help you out. Once you become accustomed to it, it is really quite simple.

This repeater is equipped with every possible, practical features I can think of and it is a premier machine for Canada. If you have any ideas for more features, suggestions are always welcome. The program is not something that I just "thought up" as it were. I welcome any further suggestions!

L.A.R.C. MEETING MARCH 13/86

Meeting opened at 8:00 P.M. by Tom VE3CX

Attendance: 39

A Round Table followed:

- Richard VE3OPI announced that a 50/50 Draw will begin at Club Meetings. Motion to proceed with this by Richard VE3OPI, seconded by Arnold VE3JAA & carried.
- Ed VE3KRP presented awards to Code & Theory Instructors from our last course.
- Skip VE3BBS went over the call out sheet for ARCS.
- Les VE3JAJ has a lead on a typewriter for the club for \$175.00. There is a possibility we could get a free typewriter but this is uncertain. Dan VE3KRC made a motion to purchase same barring any donations. seconded by Bill VE3XJ & carried.
- Tom VE3CX and Ian VE3LMN suggested that the Secretary Treasurer's job be split into two, a separate Secretary and Treasurer. A notice will be printed in Hi-Q and a constitutional change will be voted on at the next meeting.
- Frank VE3OTZ suggested that the Club should donate the old Club Rig - HW100 to Hillcrest High School. A motion by Bob VE3JAB to allow the executive to look after disposition of Rig. Seconded by Les VE3JAJ and carried.
- Motion by Les VE3JAJ, seconded by Ed VE3KRP to accept Financial statement as read by Ian VE3LMN and carried.
- The 50/50 draw was made by Tom VE3CX -- no winner to-night.
- Motion to adjourn at 9:19 P.M. by Ian VE3LMN, seconded by Bob VE3JAB and carried.

Swap night followed.

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* * * * *

REPEATER NEWS

Last month, I made reference to the fact that we would like to spend some \$3,000 over the next year or so. I will outline here what is being planned, and what has taken place so far.

We have purchased new heliax and an antenna to be installed on Mount Baldy when the weather warms. These items have been bought and paid for, and await installation. We have also purchased 2 Commodore 64 computers, one for VE3TBR and one for VE3YQT. As well, a Disk drive was also purchased. A new computer controller for VE3YQT is being built to provide many additional features in the near future. This is where we stand at present.

As most of you know, the "new" YQT is in service with autopatch. The "old" machine is still on the mill. Rather than part out or junk it, we have a better idea for the "old" YQT. We plan to bring it down from Mt. Baldy, refurbish it, and fix it up with the second 64 Computer. This will then

REPEATER NEWS (cont'd)

become a "new" VE3TBR, the "old" VE3TBR, currently in service will be removed when the new one is ready. The "old" TBR can then be refurbished as a stand alone repeater (without a computer) and be put into service at Nipigon. Permission has been obtained to put a repeater there.

As you may recall from last month's Hi-Q, a repeater is normally equipped with only one antenna, and a set of Duplexers. In a recent trip to VE3TBR, I made note of the fact that our Duplexer is not working all that well. Since a new set of Duplexers will be required for the third repeater, we felt it best to install the new set with VE3TBR. The set currently there in service could then be removed, repaired, then used at Nipigon.

In a nutshell, that's what we plan to do. On the surface, it may seem like all the equipment is getting shuffled round and round and it's hard to keep it all straight. One thing we have attempted to do through all this was to have minimum "down-time" for both repeaters. In the summer time, when at least part of the work will be done, it is tourist season, and traffic on the repeaters pick up. By moving the equipment around a little, we hope to keep both machines running most of the time.

Where will the funds be spent you ask? We estimate a new duplexer to cost around \$1,500. The parts to fix the old one (a new cable harness) is around \$500. Add in a \$500 antenna and a few bits and pieces and we are up to \$3,000.

At present, this is only a suggestion, and is being used to help the executive plan for future funding requirements. Also, should any club members wish to comment or make suggestions, we welcome your input. For the most part, we are trying to get the most for our dollars, while maintaining a high degree of reliability.

73's Tom VE3CX

DULUTH SWAPFEST '86

The time for the Duluth Swapfest is rapidly approaching. The date is May 10th (Saturday). The swapfest will be held at the Holiday Inn Downtown and is a super event -- not to be missed! Prizes include a \$1,000 U.S. Savings Bond (or cash equivalent), and an HF Rig. Door prize at the dinner afterwards, the prize is an ICOM IC2AT.

Talk in is on W0CKR/R on 34/94. ---- See you in Duluth!

Tom VE3CX

SALT MINE NET

Arnold VE3JRA reports there was 330 check ins for the month of February 1986

FINANCIAL ACTIVITY FEB. 13 - MARCH 12/66
of money at all times - of date year 1966. VE3EYV has received
OPENING-BALANCE \$3,018.08

REVENUE

Sale of Crests	\$ 4.00
Donation - G.L.F.P.	1,500.00
Dues	25.00
Sale of Book	15.00
Bank Interest	16.10
TOTAL REVENUES	\$1,560.10

EXPENSES

MI-Q Postage	64.77
Freight Charges-Hellax	63.10
Freight Charges-Antenna	35.57
Engraving on Trophy	3.75
Parts for Computer Inter-	
face - YOT	32.57
Computers & Disk Drive	740.97
New H.F. Rig	1,600.00
Battery YOT	91.97
Station Licences	60.00
Incorporation Update Fee	2.10
P.O. Box Rental	25.44
Phone Bill	27.56
TOTAL EXPENSES	2,755.80

DIFFERENCE

1,192.70

NEW BALANCE

\$1,814.38

DIRTY LAUNDRY

Rumour has it VE3TBR is in THEM's basement?? Petey came to the rescue for a couple of thirsty people. VE3OPF is getting 120 plus watts from a 75 watt rig. VE3KRO is looking for blueprints. VE3KU is looking for the wiz. VE3JAA was looking for a ride (funny what brown glasses do for your vision). VE3KRP is turning into a brass pounder in more ways than one!

50/50 DRAW

At the March meeting the club had its first 50/50 Draw. For 25¢ you may sign your name in the 50/50 Draw Book. During the meeting one name (disk only) will be drawn from a container which holds all paid members including the club students. If the one name drawn has put in 25¢ that meeting, he or she will take home 50% of the pot and the club gets 50%. There was no winner last meeting so the pot gets bigger.

VE3OPT - Rich

VE3TBR- REPEATER

This article is meant to continue along from last months article on VE3YQT. You may wish to re-read it in order to refresh your memory on some of the points regarding computerized control.

VE3TBR is located at St. Joseph's Heritage. The receiver is a Motorola Motrac and the transmitter a Marconi DT56 running 30 watts (same as VE3YQT). The Duplexer is a Sinclair Unit, and performs the same function as the Wacom Unit at Mount Baldy, except that it is tuned for a different frequency pair.

This repeater is more or less an extension of John Visser's VE3HTM, computer autopatch. Rather than have the computer just run the autopatch, it controls the entire repeaters operation from stem to stern. This has its good and bad points. This way very little hardware is required, and the entire operation of the repeater can be changed from the keyboard.

On the minus side, if the computer "loses" its memory, or when changes are being made, the machine is off the air. Period. This is one of the things that I hope to change when the computer is changed from the radio shack TRS-80 to the Commodore 64. Also, by having both repeaters running the same computers, they will both use the same software, outside of a few minor "behind the scenes" changes. As you may have guessed, the TRS-80 and C64 need different programs, and I am currently re-writing VE3TBR's program to work with the 64. Enough said about that.

If you will refer to the repeaters block diagram, you will notice that the receiver squelch line goes to the computer, via the interface. Once the open squelch is detected, a command is sent to the interface to turn on the transmitter. A 3 minute time-out timer is activated in the computers software at the same time. If this timer is exceeded, the computer tells the interface to turn off the transmitter.

When you send a command to the repeater (*1) for example, you are not really accessing the autopatch. Instead, what you are really doing is sending a command to the computer. The computer then goes off and figures out what that command means, and operates accordingly. In this case, it asks you to identify yourself, checks that you do, then waits for seven digits to follow. Simple as that. For the most part, thats it. You send commands to the computer, either with a carrier (squelch open), no carrier (squelch closed), or via your touch tone pad. The computer then performs whatever commands it has been programmed to do. Various "stop points" are built into the program, slowing its operation down for you. Although I have no reliable figures to back me up, I would hazard a guess that 99.999 percent of its time goes to waiting. Oh Well!

(cont'd)

TBR REPEATER

When we switch over to the Commodore Computers on both repeaters, the biggest change will be on VE3YQT, bringing it at par or better with VE3TBR. For the most part, VE3TBR will be the same, outside of a few new features currently in the works. Please remember this: When both machines have their 64's in place, they will be functionally identical. Same access codes, same timers, etc.

The "biggie" in terms of new features will be a synthesized voice. Things look very promising here, and once implemented, CW will become a thing of the past, as far as the repeaters are concerned. Many larger centres have already "made the changes", and its time for us to follow suit. Once this change is made, all machine utterings (except the courtesy beep) will be done in voice. For example, instead of "ID?" in CW, it will be something like "your call sign please" in voice.

The next feature is one I am letting "out of the bag" so to say. If and when it will be implemented is still up in the air, but the possibility of VOICE CONTROL exists! The synthesized voice we will be using "records" and "plays back" speech using the computer. The demo tape that Ed, VE3KRP has of the voice module, called a "voice master" had examples of voice command.

This one is still up in the air until the unit arrives, but the possibilities are there. A certain set of "keywords" would be used to send commands to the computer. Who knows. Someday soon, you will not only have the computer talking to you, but you can talk back to it! Look Ma, no tones required.

Hopefully, these articles on our repeaters have helped to clear up some of the mystery of how they work, and whats in the works. In short, I guess I could say that whatever features anyone else has, and we can use, we will give it a try, and see if we can have it too! After all, experimentation is the name of the game.

As always, if you have any ideas for additional features please pass them along. I will be more than happy to answer any questions regarding the repeaters and/or their associated computer controllers.

73's - Tom VE3CX

* * * * *

SWAP/SHOP

Anyone having any equipment for sale or trade and would like it advertised on the Northwestern Ontario Net may contact Art - VE3LMG at 475-4662.

Art - VE3LMG

VE3TER FUNCTION SHEET

- *1 - AUTOPATCH *2 - TEST PAD *3 - Dial IN
 *4 - AUTOPATCH *5 - EME SPEED DIAL *6 - WORK # SPEED DIAL (*)
 *7 - HOME # SPEED DIAL *8 - TIME *9 - REDIAL
 # - TERMINATE ALL FUNCTIONS * - RESET AUTOPATCH 5 MIN TIMER

SINGLE BEEP - RESET TIME-OUT TIMER DOUBLE BEEP - SEVERE WEATHER WATCH
 TRIPLE BEEP - DIAL IN (345-5552) - USE *3 TO ANSWER
 SPECIAL BEEP - EMERGENCE - PLEASE QSY TO VE3YOT
 ANY DIGIT FOR TEN SECONDS - DISTRESS

TALK MESSAGES

MEET - MEETING NIGHT RACE - LEGION 10 MILE HEART OF THUNDER BAY
 SKI - SIBLEY SKI TOUR VOTE - ELECTION DAY REMINDER
 DUES - ANNUAL DUES NOW DUE CLUB - CLUB STATION VE3FM OPEN (WED. NIGHT)
 ARES - ARES TRAFFIC NET NET - NET ON VE3YOT

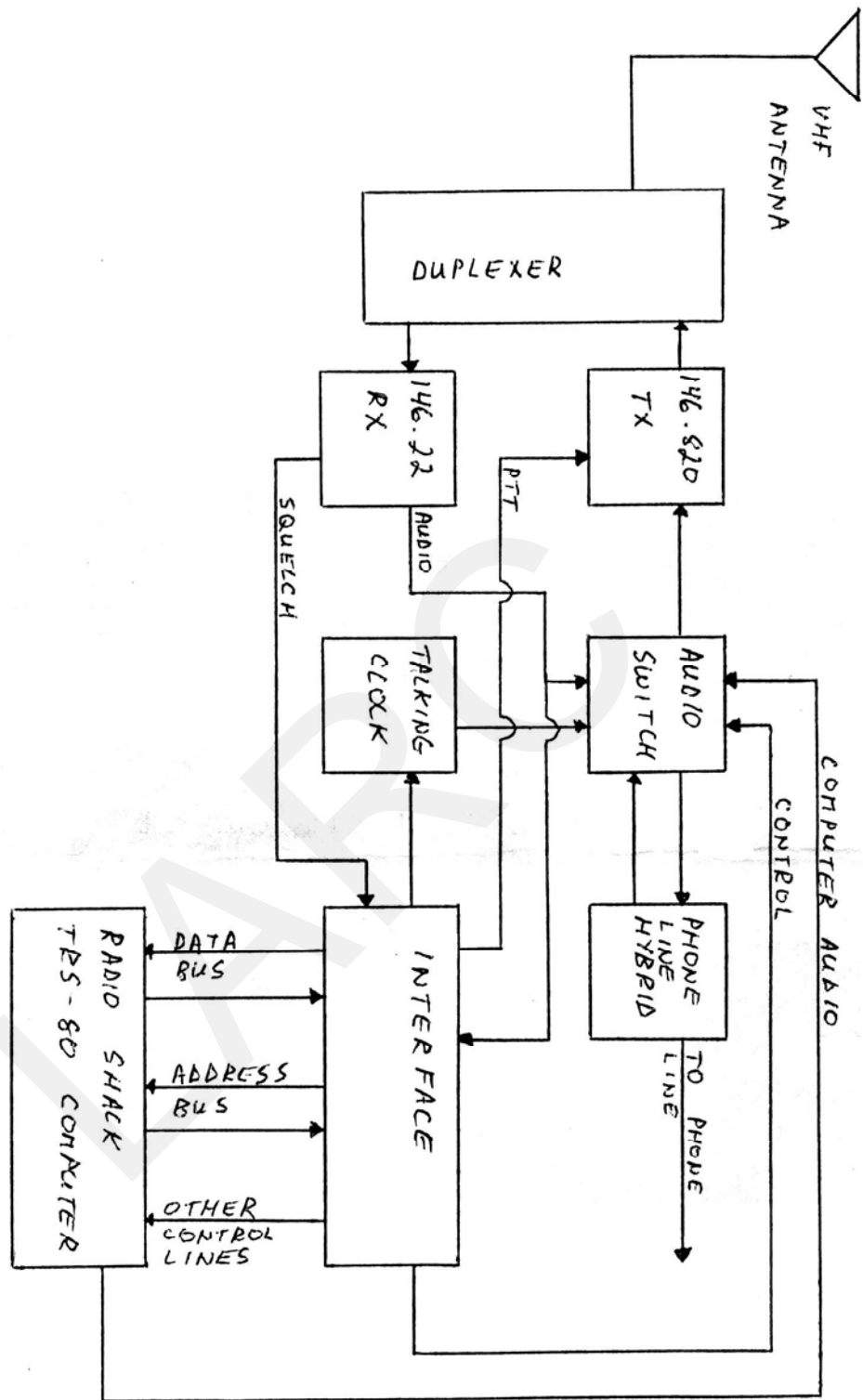
EMERGENCY SPEED DIAL (*5)

00 - POLICE	12 - McKELLAR	53 - SKI
01 - OPP	13 - ST. JOSEPH	60 - CPR. SUPV.
02 - FIRE	20 - EMC	61 - RED CROSS
03 - FOREST FIRE	22 - ROAD INFO.	70 - CJLB
04 - AMBULANCE	23 - CITY HALL	71 - CKPR
05 - WEATHER OFFICE	24 - ONL	
10 - GENERAL HOSPITAL	30 - TOW N.	
11 - LPH	31 - TOW S.	

AHD - 32	EFC - 50 *	JAJ - 55	LML - 36 *	OTC - 73 *
AJ - 62	EFZ - 33 *	JAU - 49 *	LMN - 27 *	OTI - 39
ARM - 11	HFS - 16	JAY - 10	LMV - 40 *	OTZ - 78 *
AVS - 76 *	HPT - 22	JQ - 25	MEK - 46	PHL - 59
AYZ - 13	HTM - 44	KRD - 99	NFN - 60	PHM - 58
BBS - 23 *	HKK - 38	KRH - 45	NHP - 52	PHT - 54
BCD - 28 *	HZW - 57 *	KRN - 65	NHX - 14 *	WF - 20 *
CK - 20 *	ICY - 35	KRO - 77 *	NNO - 31	XJ - 15 *
CX - 69 *	ILV - 90	KRP - 88 *	NMR - 66	XT - 18
DJM - 51	IY - 64 *	KRV - 70 *	OPI - 47	ZG - 19 *
ECV - 26	JAA - 21	LMG - 12	OPL - 30	
EDZ - 61	JAB - 37	LMI - 17	OPZ - 42	

THE ABOVE ARE SPEED DIAL (*7) HOME OR(*6) work

VE3TBR REPEATER

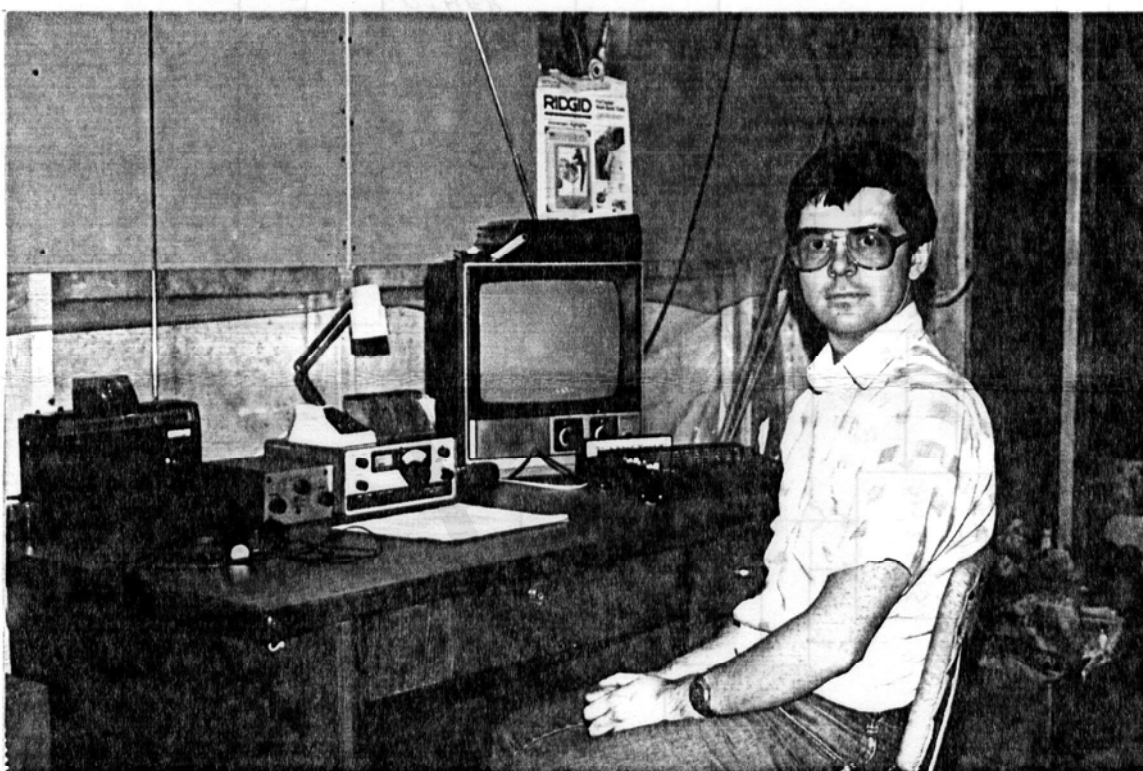


AMATEUR OF THE MONTH

BILL UNGER VE3EFC

Bill was licenced in 1970 and advanced in 1975.

Bill Unger works for CBC as a Transmitter Technician and gets to play with various high power transmitters ranging from 10 KW A.M. to UHF T.V. transmitters. He also spent four years with the D.O.C.



On the Ham Bands he worked almost all QRP CW with a much modified HW - 8. His stand-by rig is a HW - 101. For HF his present Antenna is a Center Fed Zepp. He plans someday to get his TA33JR Beam up again. For VHF he uses a Multi 7 Feeding a Vertical Dipole. During the Summer Months, he runs portable HF from the various Provincial Parks.

RAFFLE ANNOUNCEMENT

It has been just recently that the Club has taken a slightly more aggressive approach toward fund raising. Club dues and code and theory classes bring in general operating revenue, but when a large project is tackled, we have to look elsewhere.

Our raffle for the texas mickey was very successful, so here we go again. We are looking for approximately \$3,000 to purchase a new repeater controller for VE3TBO. All funds raised from this raffle will go towards the repeater.

We will be printing 3,000 tickets, and will sell them for \$1.00 each. The prize will be a side of beef or \$600 cash. Gary VE3CK and Tom VE3CX have tickets. The draw is set for June 31, 1985. A prize will also be awarded to the person who sells the most tickets.

The raffle will probably cost from \$700 - \$800, with the balance going toward the repeaters autopatch. We need your help to make this raffle as successful as our last one. We can do it!

KENORA ARC SUMMER PARTY

If you will be in the Sioux Narrows area this summer, the Kenora ARC has a party planned for August 2,3,4,5. It will be held at the Sioux Narrows Provincial Park, and serviced and unserviced trailer parking is available. For more details, contact Skip, VE3BBS.

TVI CURE

Got a problem with TVI, but don't know what to do? VLad, VE3KRV ran into such a problem, and came up with a neat cure. Any television set has a yoke on the picture tube. If you have a broken set, remove the yoke. It has a number of winding on it which are also removed. What you are left with is a large ferrit core. Wind the videon cable through the yoke 5 or 6 times, and presto--no more TVI! P.S. Thunder Bay Color has a large supply of old TV deflection yokes just for the asking.

There are a wealth of special prefixes around at the moment. If you are having difficulty keeping them all straight, here is the present list:

<u>PREFIX</u>	<u>EVENT</u>	<u>DURATION</u>	<u>AREA</u>
CG Charlie Golf	75th Anniversary of Girl Guides	Feb.17-Apr.17	Canada Wide
CZ Charlie Zulu	Ontario Winter Games	March 1-17	Ontario
CF Charlie Foxtrot	75th Anniversary of Canadian Navy	Apr.1-May 31	Ex-Navy
VX Victor X-Ray	Lethbridge Centennial	Personnel -	Canada Wide
XO X-Ray Oscar	Parks Canada Centennial	July 14-27	Alberta
XJ X-Ray Julliett	Parks Canada Centennial	June 29-Aug.29	Nfld&Lab.
		" " " "	Maritimes,
			Que,Ont,Man,
			Sask,Alta,BC,
			NWT.
XK X-Ray Kilo	Parks Canada Centennial	" " " "	Yukon

91



AR

DE

09

K

LAKEHEAD AMATEUR RADIO CLUB
P.O. BOX 2571
THUNDER BAY, ONTARIO
P7B 5G1



TO:

L. Scalese VE3NHX
237 Dennis Street
THUNDER BAY, Ontario
P7B 5H7

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NI-Q